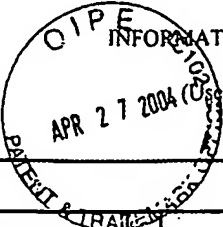
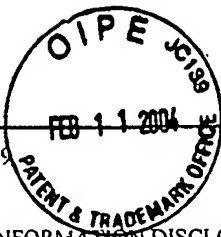


Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. P24122		Serial No. 10700,496								
<div style="text-align: center;"></div> <div style="text-align: right;">Applicant Ken HIRUNUMA et al</div>				Filing Date November 5, 2003		Group 2872								
U.S. PATENT DOCUMENTS														
EXAMINER INITIAL	DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE						
JP	6	4	0	1	0	6	9	06/04/02 BOYS et al						
JP	5	7	8	3	2	9	9	07/21/98 MIYASHITA et al						
JP	5	6	2	2	7	8	4	04/22/97 OKAUE et al						
JP	4	6	8	7	7	0	7	08/18/87 MATSUO et al						
JP	5	7	3	3	6	6	0	03/31/98 MAKITA et al						
[Crossed out section]														
FOREIGN PATENT DOCUMENTS														
	DOCUMENT NUMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO						
JP	0	3	1	0	4	2	8	5	1	05/22/03 W.I.P.O.				
JP	0	3	1	0	1	4	7	9	8	02/20/03 W.I.P.O.				
JP	2	3	8	6	4	9	2	09/17/03 UNITED KINGDOM						
JP	1	1	-	3	0	8	5	6	8	11/05/99 JAPAN				
JP	6	-	3	4	0	9	6	6	12/13/94 JAPAN					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
JP	1	English Language Abstract of JP11-308568.												
JP	2	English Language Abstract of JP6-340966.												
EXAMINER <i>Rena Z. [Signature]</i>						DATE CONSIDERED <i>4/15/05</i>								
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2872

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JP</i>	2001 /	0	0	2	8	4	9	8	10/11/01	HAGA et al.			
<i>JP</i>		4	0	6	7	0	2	7	01/02/78	YAMAZAKI			
<i>JP</i>		4	2	6	2	9	8	8	04/21/81	ISHIBAI et al.			
<i>JP</i>		4	4	0	0	0	6	5	08/23/83	NAGLER			
<i>JP</i>		5	5	8	3	6	9	2	12/10/96	FUNATSU			
<i>JP</i>		5	7	2	9	3	9	0	03/17/98	ABE			
<i>JP</i>		5	9	2	6	6	5	7	07/20/99	HASUSHITA			
<i>JP</i>		6	0	8	8	0	5	3	07/11/00	HAMMACK et al.			
<i>JP</i>	2003 /	0	0	7	2	5	6	7	04/17/03	ABE			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
<i>JP</i>	3	6	-	1	2	3	8	7	08/02/61	JAPAN			X	
<i>JP</i>	5	7	-	7	9	9	0	9	05/19/82	JAPAN			X	
<i>JP</i>	6	2	-	9	6	9	1	9	05/06/87	JAPAN			X	
<i>JP</i>			5	-	2	1	3	2	01/08/93	JAPAN			X	
<i>JP</i>			6	-	2	3	3	0	01/14/94	JAPAN			X	
<i>JP</i>			7	-	8	8	4	8	02/07/95	JAPAN			X	
<i>JP</i>	7	-	2	8	3	9	7	8	10/27/95	JAPAN			X	
<i>JP</i>	11	-	2	4	8	9	9	6	09/17/99	JAPAN				
<i>JP</i>	2	6	2	4	5	5	6	6	04/11/97	JAPAN			X	
<i>JP</i>	2001	-	2	8	1	5	5	5	10/10/01	JAPAN				
<i>JP</i>	2001	-	3	1	1	8	6	8	11/09/01	JAPAN				
<i>JP</i>	0	1	/	5	2	5	3	1	07/19/01	W.I.P.O.				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JP</i>	1	English Language Abstract of JP 11-248996.
<i>JP</i>	2	English Language Abstract of JP 2001-311868.

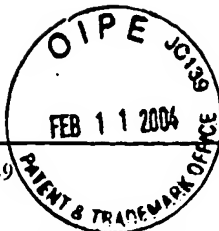
EXAMINER

Ken Hirunuma

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<i>JP</i>	2003 /	0	0	7	2	0	9	1	04/17/03	ABE		
<i>JP</i>	2003 /	0	0	6	3	3	8	2	04/03/03	HIRUNUMA et al.		
<i>JP</i>	2003 /	0	0	6	3	3	8	1	04/03/03	ABE		
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<i>JP</i>	2003 /	0	0	6	3	2	0	9	04/03/03	ENOMOTO et al.		
<i>JP</i>	2003 /	0	0	6	3	1	8	9	04/03/03	HIRUNUMA et al.		
<i>JP</i>	2003 /	0	0	6	3	3	8	0	04/03/03	HIRUNUMA et al.		
<i>JP</i>	2003 /	0	1	5	1	8	0	7	08/14/03	HIRUNUMA et al.		
<i>JP</i>	2003 /	0	1	5	1	8	0	8	08/14/03	HIRUNUMA et al.		
<i>JP</i>	2003 /	0	1	5	1	6	6	0	08/14/03	HIRUNUMA et al.		
<i>JP</i>	2003 /	0	2	0	2	1	1	8	10/30/03	HURUNUMA et al.		

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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